# ASHP BEST PRACTICES AWARD

Success of an Expedited Pharmacy Technician Training Program To Augment the Workforce Needs of an Institution

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#### Introduction

# Duke University Health System (DUHS)

- Founded in 1930
- 23,462 employees
- Not-for profit health system
- 1,552 inpatient beds
- Three Hospitals
- Duke University Hospital (DUH)
- Duke Regional Hospital (DRH)
- Duke Raleigh Hospital (DRAH)
- Duke HomeCare and Hospice
- Many ambulatory clinic locations
- Level 1 trauma center
- NCI designated cancer center

### Pharmacy Services

- Robust service lines across specialty areas
- Over 500 FTE department
- 269 Pharmacists
- 246 Pharmacy Technicians
- 21 Pharmacy Residents
- Over 25 pharmacy locations across acute and ambulatory

#### Purpose

- Currently 419,300 pharmacy technician positions available with a 4% forecasted growth from  $2020-2030^1$
- Literature well documents the critical role of pharmacy technicians and the importance of competence<sup>2-6</sup>
- A recent American Society of Health-System Pharmacists (ASHP) report described significant turnover<sup>7</sup>
- A pharmacy technician training program is a solution<sup>8-12</sup>
- Uniform education is still needed<sup>13-16</sup>
- Influenced organization to start program in 2018

#### **Description of the Program**

### Program Goals

- Produce graduates well equipped and eligible for certification by the Pharmacy Technician Certification Board
- Recruit candidates that will positively represent the program and excel academically
- Prepare students for employment with our health system
- Develop a consistent source of well-trained technicians to meet the needs of the health system
- Provide a superior level of clinical training to technician students at an affordable price

# Structure

- Began with business plan
- Seeking candidates interested in health system pharmacy
- Goal to run cost neutral
- Digital content provider partnership allows for significant infrastructure
- Program meets the ASHP/ACPE entry level accreditation standard of 400 hours
- Program runs 11 weeks
- Three cohorts annually (January, April, and August)
- Internal and external applicant base

# Curriculum

- Didactic provided by digital content provider
- Pace at 40 hours of content per week
- On-site and remote simulations
- Two 111 hour blocks of experiential learning in acute and ambulatory care
- Vendor accelerated time to launch and content updates
- Program is supported by a pharmacy leader as director and pharmacy technician coordinator

#### Implementation

- Launches to meet the current and future demands of pharmacy technicians at our institution
- Partnership with Human Resources and Communications Departments to overcome challenges
- Program offered at over 15 sites in our department
- Time dedicated to both teaching and planning phases of the program.

#### Figure 1: Snapshot of Program and Planning Timeline:

January	February	March	April	May	June	July
January cohort starts	Deadline to submit application for April	Information sessions	January cohort ends	Marketing and advertising for August cohort	Deadline to submit application for August	Information sessions
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Marketing and Advertising for April cohort	Interviews conducted		April cohort starts	Internal employee information sessions	Interviews conducted	April cohort ends
	- □			Φ.	Φ.	
Internal employee information sessions	Candidates and managers notified for internal employees			Applications for internal and external candidates	Candidates and managers notified for internal employees	
Applications for internal and external candidates						

# **Experience with the Program**

#### Accreditation

- April 2022: 11 cohorts with 41 graduates
- Entry level of 400 hours
- Full six year accreditation in initial review

#### Pass Rates

- 93% graduation rate
- 88% PTCB pass rate

# Job Placement

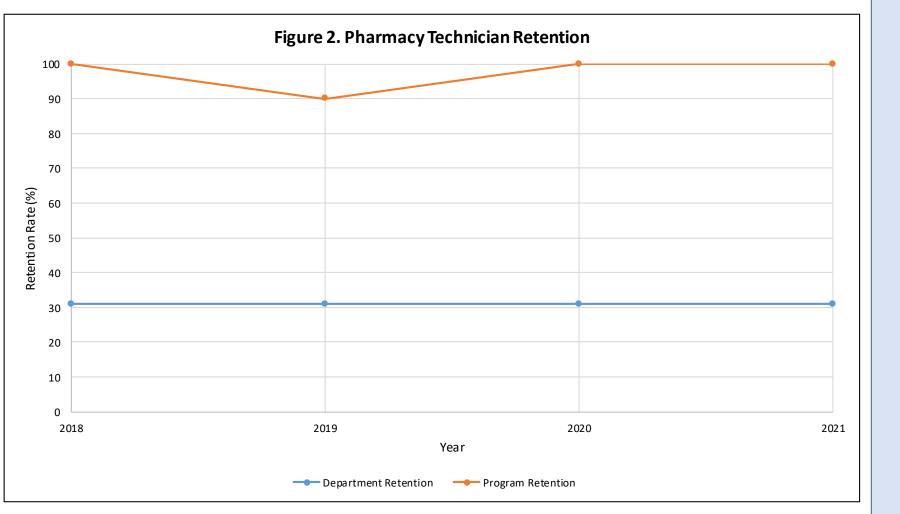
- 88% of graduates employed in the health system
- Placement of well trained pharmacy technicians supports an expanding scope of the pharmacist
- Internal applicants are able to stay in their current role at a reduced capacity and shift time to focus on the program

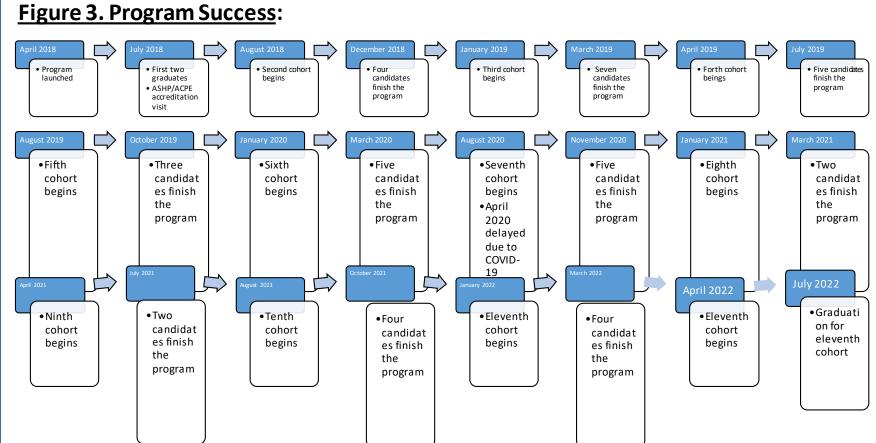
# Experience

- Innovative technology allows for modified level of employment and increased participation
- All students meet expectations in experiential learning
- All instructors are evaluated as favorable

#### Retention

• 90% program retention compared to 31% department retention





#### **Discussion / Conclusion**

# Significance of Program

- Need for standardized pharmacy technician training is well known
- Important solution to solving current workforce challenges
- Alignment with professional statements
- Consistent source of pharmacy technicians for our health

#### Conclusion

- Our program has produced graduates who are equipped to gain certification through PTCB
- Pharmacy Technicians who completed the program have higher retention rates
- Program ensures continuity and uninformatively of training

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